Section 7C of the SAE Technical Board rules provides that: "All technical reports, including standards approved and practices recommended, are advisory only. Their use by anyone engaged in industry or trade is entirely voluntary. There is no agreement to adhere to any SAE standard or recommended practice, and no commitment to conform to or be guided by any technical report. In formulating and approving technical reports, the Board and its Committees will not investigate or consider patents which may apply to the subject matter. Prospective users of the report are responsible for protecting themselves against liability for infringement of patents."

AERONAUTICAL
MATERIAL SPECIFICATIONS

SOCIETY OF AUTOMOTIVE ENGINEERS, Inc. 485 Lexington Ave., New York 17, N.Y.

AMS 4056

Issued 1-15-60
Revised

ALUMINUM ALLOY SHEET AND PLATE
4.5Mg - 0.65Mn - 0.15Cr (5083-0)

1. ACKNOWLEDGMENT: A vendor shall mention this specification number in all quotations and when acknowledging purchase orders.

2. APPLICATION: Primarily for formed parts where welding, moderate strength, and good resistance to corrosion are required. Excessive cold work or prolonged heating in the temperature range of 150 - 300 F may cause susceptibility to stress corrosion.

3. COMPOSITION:

Magnesium	4.0 - 4.9
Manganese	0.30 - 1.0
Chromium	0.05 - 0.25
Iron	0.40 max
Silicon	0.40 max
Zinc	0.25 max
Titanium	0.15 max
Copper	0.10 max
Other Impurities, each	0.05 max
Other Impurities, total	0.15 max
Aluminum	remainder

4. CONDITION: Annealed and, unless otherwise specified, mill finish.

5. TECHNICAL REQUIREMENTS:

5.1 Tensile Properties: Test specimens shall conform to ASTM E8-57T except from sheet less than 3/4 in. wide and shall be cut parallel to the direction of rolling. Elongation requirements apply only to sheet 3/4 in. and over in width.

Nominal Thickness Inch	Tensile Strength psi, min	Yield Strength at 0.2% Offset or at Extension Indicated (E = 10,200,000) psi, min	Extension Under Load in. in 2 in.	Elongation % in 2 in. min
0.050 to 0.750, incl	40,000	18,000	0.0075	16
Over 0.750 to 2.000, incl	38,000	16,000	0.0071	16

5.1.1 When a dispute occurs between purchaser and vendor over the yield strength value, yield strength determined by the offset method shall apply.

5.1.2 If sizes other than those shown are ordered, tensile property requirements shall be as agreed upon by purchaser and vendor.

SAENORM.COM : Click to view the full PDF of ams4056

Copyright 1960 by Society of Automotive Engineers, Inc.

Printed in U. S. A.